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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/712,042	11/14/2000	Lixiao Wang	S63.2-9213	9167
490	7590 03/22/2005		EXAMINER	
•	RRETT & STEINKRA	THOMPSON, MICHAEL M		
6109 BLUE CIRCLE DRIVE SUITE 2000			ART UNIT	PAPER NUMBER
	NKA, MN 55343-9185		3763	
			DATE MAILED: 03/22/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
Office Action Summary		09/712,042	WANG ET AL	60
Onic	te Action Summary	Examiner	Art Unit	
		Michael M. Thompson	I	
The MA Period for Reply	ILING DATE of this communication	appears on the cover she	et with the correspondence ac	idress
THE MAILING - Extensions of time after SIX (6) MON - If the period for re - If NO period for re - Failure to reply with Any reply received	DATE OF THIS COMMUNICATION PERIOD FOR REDATE OF THIS COMMUNICATION Provisions of 37 CFI ITHS from the mailing date of this communication ply specified above is less than thirty (30) days, a ply is specified above, the maximum statutory pethin the set or extended period for reply will, by state by the Office later than three months after the man adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, n . reply within the statutory minimum riod will apply and will expire SIX (6 atute, cause the application to beco	nay a reply be timely filed of thirty (30) days will be considered time) MONTHS from the mailing date of this o me ABANDONED (35 U.S.C. § 133).	
Status			•	
1)⊠ Respons	sive to communication(s) filed on <u>1</u>	<u> 3 December 2004</u> .		
2a)⊠ This acti	on is FINAL . 2b) 🔲 🛚	This action is non-final.		
·—	is application is in condition for allon accordance with the practice und	•	· •	e merits is
Disposition of Cla	aims			
4a) Of th 5) ☐ Claim(s) 6) ☑ Claim(s) 7) ☐ Claim(s)	19-45 is/are pending in the applicate above claim(s) 21-29 is/are without is/are allowed. 19-20,30-45 is/are rejected. is/are objected to. are subject to restriction and	drawn from consideration		
Application Pape	rs			
9) ☐ The spec	ification is objected to by the Exan	niner.		
10)∐ The draw	ving(s) filed on is/are: a)□ :	accepted or b)□ objecte	d to by the Examiner.	
Applicant	may not request that any objection to	the drawing(s) be held in at	peyance. See 37 CFR 1.85(a).	
	nent drawing sheet(s) including the cor or declaration is objected to by the			
Priority under 35	U.S.C. § 119			•
12) Acknowle a) All b 1. Ce 2. Ce 3. Ce ap	edgment is made of a claim for fore Some * c) None of: ertified copies of the priority docume ertified copies of the priority docume popies of the certified copies of the priority docume poplication from the International Buttached detailed Office action for a	ents have been received ents have been received priority documents have to reau (PCT Rule 17.2(a)).	in Application No been received in this National	l Stage
Attachment(s)				
1) Notice of Refere			view Summary (PTO-413)	
2) 🔲 Notice of Draftsp	person's Patent Drawing Review (PTO-948) losure Statement(s) (PTO-1449 or PTO/SB	Pape /08) 5) ☐ Notic	r No(s)/Mail Date e of Informal Patent Application (PT r:	O-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 102/103

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4. Claims 19-20 and 30-44 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Chen et al. (5,554,120) in view of Onwunaka et al. (5,281,677) or Alzner (5,458,935). Chen et al. teaches all the limitations of the claims

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(note summary) except for specific polyurethane resins and polyurethane elastomers as recited by Applicant. Both Onwunaka et al. and Alzner teach polymer blends for use in making medical devices including catheters and balloons for catheters. Specifically he teaches a combination of polymeric components providing characteristics in forming medical instruments such at catheters and balloons wherein the first or second polymeric components are polyurethane resins and polyurethane elastomers as recited by Applicant. It is the Examiner's position that the physical properties are inherent to the blends as recited in the patents. In the alternative, if Applicant disagrees that the physical properties are inherently described in the blends as recited above, it is the Examiner's position that although the references do not expressly disclose the physical properties of distension profile, flexural modulus, wall strength, and burst pressures, at the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to choose any polyurethane resin and elastomer blend that may result in the properties disclosed by Applicant because Applicant has not disclosed that a specific distension profile, flexural modulus, wall strength or burst pressure provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with either of the blends taught by Onwunaka et al. or Alzner or several other polyurethane resin/elastomer blend or any blend with for example a flexural modulus of 250,000, a wall strength of 15,000, a burst pressure of 13 atm, because all of the blends as cited by the prior art perform functions of balloon catheters equally well and are well known in the art of balloon catheters materials for several medical procedures such as angioplasty.

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Response to Arguments

5. Applicant's arguments filed 12/13/2004 have been fully considered but they are not persuasive. In addressing Applicant's arguments it is the Examiners position that selection of any polyurethane resin and elastomer blend since, "it would have been an obvious matter of design choice to a person of ordinary skill in the art to choose any polyurethane resin and elastomer blend that may result in the properties disclosed by Applicant because Applicant has not disclosed that a specific distension profile, flexural modulus, wall strength or burst pressure provides an advantage, is used for a particular purpose, or solves a stated problem." The prior art rejection of record sets forth the broad teaching of polyurethane and elastomer blends for use in medical balloons. Additionally, it is the Examiner's position that Pellethane of 189 ksi is about or near 240 ksi. It is submitted that the properties of Pellethane of 189 ksi are similar if not identical to Applicant's 240 ksi, absent criticality, and would have been an obvious matter of design choice. It should be noted that several polyurethane resins that include carbon, glass, and other mixtures and UV stable devices often obtain a modulus of 240 ksi or greater.

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Contacts

Any inquiry concerning this communication or earlier communications from the

Examiner should be directed to Michael Thompson whose telephone number is (571) 272-4968.

The Examiner can normally be reached on Monday through Friday from 9 am to 5 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's

Supervisor, Nick Lucchesi, can be reached on (571) 272-4977. The official fax phone number for

all submissions to the organization where this application or proceeding is assigned is (703) 872-

9306.

Michael M. Thompson

Patent Examiner

NICHOLAS D. LUCCHESI

TECHNOLOGY CENTER 3700

March 16, 2005